

PATENT ABSTRACTS OF JAPAN

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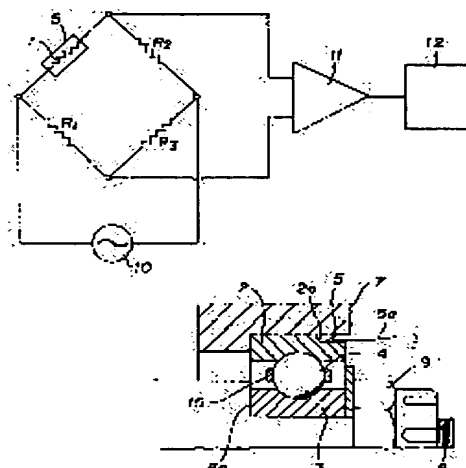
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(54) METHOD OF ATTACHING BEARING

(57)Abstract:

PURPOSE: To make it possible to precisely apply a predetermined preload value to a bearing by fastening the bearing while directly detecting a preload applied to the bearing with the use of a strain gage attached to a cut-out part in the peripheral surface of a stationary side race of the bearing on the side remote from the orbit side.

CONSTITUTION: Upon use, the outer race 2 of a roller bearing 1 is fixed to a housing 7, and outer race 3 is fitted on a rotary shaft 8. A nut 9 screwed onto the rotary shaft 8 is turned by a spanner monkey which is a normal tool so as to axially press and fix the inner race 3 against a step part 8a of the rotary shaft 8, and accordingly a preload is applied to balls 4. At this time, an output from a strain gage 5 is obtained by detecting resistances R1, R2, R3 in a bridge circuit and a variation in the electrical resistance (r) of the strain gate 5 through an amplifier 11, and accordingly, it is possible to know the preload through a recorder 12.



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